TAT-02-F-03142

BOSSERT MANUFACTURING
SAMPLING PLAN

1. PROJECT NAME: Bossert Manufacturing
Utica, New York

2. PROJECT REQUESTED BY: Joseph Rotola
Response and Prevention Branch
U.S. EPA

3. DATE REQUESTED: August 5, 1986

4. DATE OF PROJECT INITIATION: July 30, 1986

5. PROJECT OFFICER: Gerard Maresca, TAT II

6. QUALITY ASSURANCE OFFICER: Karen Sahatjian, TAT II
Therese Perrette, TAT II

7. PROJECT DESCRIPTION:

A. Objective and Scope:

The objective of this project is to obtain data to assess the extent of contamination at the Bossert Manufacturing site. Samples collected from the sumps and drums on site have indicated PCB contamination. This sampling effort will identify the extent of contamination.

B. Data Usage:

Data obtained from the sampling program will be used in conjunction with previous analytical results from the site to establish the threat presented by polychlorinated biphenyls (PCB) contamination on site. If PCBs are identified, the threat associated with the PCB contamination will be presented in a Removal Action Memorandum which will also present a work plan and cost estimate for the cleanup of this site.

C. Surface Wipe Sampling:

Approximately 16 wipe samples shall be collected from walls, floors and machinery inside the building. Samples shall be collected following the procedures set forth in Section 11 and Appendix A of this plan.

D. Parameter Table:

Parameter	No. of Samples*	Sample Matrix	Analytical Method Ref.	Sample Preservation	Holding Time
PCB	16	Surface Wipe	NIOSH Method 5503	Not Applicable	14 Days

*Number of samples may be adjusted as necessary based on field observations.

8. PROJECT FISCAL INFORMATION:

Sampling equipment and manpower shall be provided by the Technical Assistance Team (TAT). Analysis of the collected samples for PCB will be performed by Nanco Laboratory, Hopewell Junction, New York under Special Projects TDD #2-8607-S4. No additional costs are anticipated at this time.

9. PROJECT ORGANIZATION AND RESPONSIBILITY:

The following is a list of key project personnel and their corresponding responsibilities:

Joseph Rotola	On-Scene Coordinator
Gerard Maresca	Project Manager
Karen Sahatjian	QA/QC Officer
Therese Perrette	QA/QC Coordinator

10. DATA QUALITY REQUIREMENTS AND ASSESSMENTS:

Parameter	Sample Matrix	Det. Limit	Est. Acc.	Acc. Prot.	Est. Prec.	Prec. Prot.
PCB	Surface Wipe	MDL*	Method Dependent	Duplicate of Every 10th Sample	RPD*	Duplicate of Every 10th Sample

*Method Detection Limit
**Relative percent difference not to be greater than 30%.

11. SAMPLING PROCEDURES:

A. Surface Wipe Sampling:

Whatman 40 filter papers (11 cm. diameter) soaked in hexane will be used to wipe the surface of the interior walls, floors and machinery of the Bossert Manufacturing building. The filter paper will be wiped over a 1 square meter surface area. A frame with a one square meter interior surface area will be used to insure consistency in wipe area at each sampling location.

After the sample has been collected, the filter paper will be stored in a clean 4 ounce glass container. The collected samples will be labelled in the field and stored in coolers. Samples will be delivered to the testing laboratory within 48 hours after collection. The sampling procedure will follow the New York State Department of Health protocol for PCB swipe sampling (Appendix A).

B. Sample Containers:

Sample containers will be provided by I-CHEM under terms of the EPA sample container contract.

12. SAMPLE CUSTODY PROCEDURES:

EPA Chain-of-Custody will be maintained throughout the sampling program as per TAT Standard Operating Procedures (SOP) on sample handling, sample container contract specifications and EPA Laboratories SOP. The Chain-of-Custody form to be used lists the following information:

i. Sample number.

ii. Number of sample containers.

iii. Description of samples including specific location of sample collection.

iv. Identity of person collecting the sample.

v. Date and time of custody transfer to laboratory (if the sample was collected by a person other than laboratory personnel).

vi. Identity of person accepting custody (if the sample was collected by a person other than laboratory personnel).

vii. Identity of the laboratory performing the analysis.

13. DOCUMENTATION, DATA REDUCTION AND REPORTING:

Documentation: Field data will be entered into a bound notebook. Field notebooks, Chain-of-Custody forms, and laboratory analysis reports will be filed and stored per the TAT Document Control System.

14. QUALITY ASSURANCE AND DATA REPORTING:

QA/QC to be furnished by the contracted laboratory in performance of the analysis will consist, at a minimum, of the following measures to ensure accurate data.

1. One field blank will be shipped unopened to the laboratory. This blank is to be analyzed in order to ensure that no contamination has occurred.

2. Matrix spike and matrix spike duplicate analysis will be performed on samples provided by the sampling team. Results will be documented and submitted in the written report.

3. The contracted laboratory will also furnish the following additional information as warranted:

    a) GC/MS tuning and calibration standard.

    b) Copies of all spectral data obtained during performance of analysis. Copies should be signed by the analyst and checked by the Laboratory Manager.

    c) Date System Printout

        - Quantification report or legible facsimile (GC/MS).

    d) Manual work sheets.

    e) Identification and explanation of any analytical modifications used that differ from U.S. EPA protocol.

Additionally, the sample collection team will collect one sample in duplicate as a further check on the precision and accuracy of the contracted laboratory. The laboratory will be unaware of this duplication.

Project and Quality Assurance Officers will be responsible for accurate reporting of the data for the sampling report.

15. DATA VALIDATION:

All steps of data generation and handling will be evaluated by the On-Scene Coordinator, the Project Officer and the Quality Assurance Officer for compliance with EPA Region II SOP for validating hazardous waste site data.

16. SYSTEM AUDIT:

The QA/QC Officer or her designated representative will observe the sampling operations and review subsequent analytical data to assure that the QA/QC project plan has been adhered to.

17. CORRECTIVE ACTION:

All provisions in the field and laboratory will be taken to ensure that any problems that may develop will be dealt with as quickly as possible to ensure the continuity of the sampling program. Any deviations from this sampling plan will be noted in the final report.

18. REPORTS:

Draft reports will be issued 14 days after receipt of laboratory results. Final reports will be issued 7 days after return of draft report by the EPA's Project Manager.